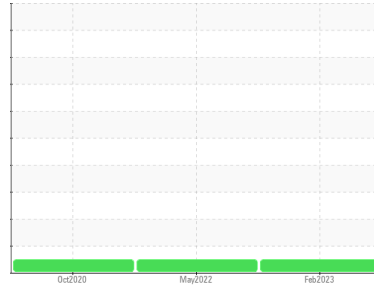




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**351016**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>GFL0047676</b>	GFL0047699	GFL0011122	
Sample Date	Client Info	<b>10 Feb 2023</b>	26 May 2022	15 Oct 2020	
Machine Age	hrs	Client Info	<b>163795</b>	10956	8540
Oil Age	hrs	Client Info	<b>900</b>	553	0
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	0.9
Glycol	WC Method	<b>NEG</b>	NEG	0.0

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >110	<b>27</b>	35	29
Chromium	ppm ASTM D5185(m) >4	<b>&lt;1</b>	1	1
Nickel	ppm ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >2	<b>&lt;1</b>	0	<1
Aluminum	ppm ASTM D5185(m) >25	<b>3</b>	4	6
Lead	ppm ASTM D5185(m) >45	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185(m) >85	<b>1</b>	1	2
Tin	ppm ASTM D5185(m) >4	<b>0</b>	<1	<1
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 2	<b>2</b>	2	2
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 50	<b>63</b>	65	60
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 950	<b>1010</b>	1087	989
Calcium	ppm ASTM D5185(m) 1050	<b>1092</b>	1143	1114
Phosphorus	ppm ASTM D5185(m) 995	<b>1022</b>	1113	1013
Zinc	ppm ASTM D5185(m) 1180	<b>1249</b>	1347	1305
Sulfur	ppm ASTM D5185(m) 2600	<b>2437</b>	2552	2537
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >30	<b>4</b>	4	6
Sodium	ppm ASTM D5185(m)	<b>2</b>	2	3
Potassium	ppm ASTM D5185(m) >20	<b>2</b>	3	13

## INFRA-RED

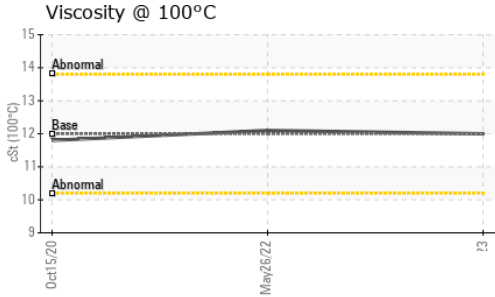
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0.4</b>	0.4	0.6
Nitration	Abs/cm ASTM D7624* >20	<b>11.7</b>	11.6	11.2
Sulfation	Abs/.1mm ASTM D7415* >30	<b>22.8</b>	24.6	22.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>20.7</b>	21.0	21.5



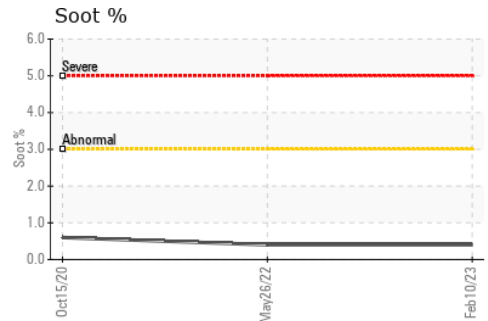
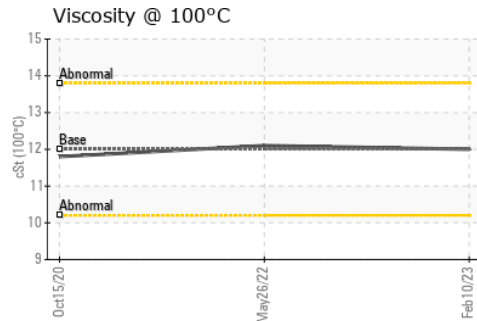
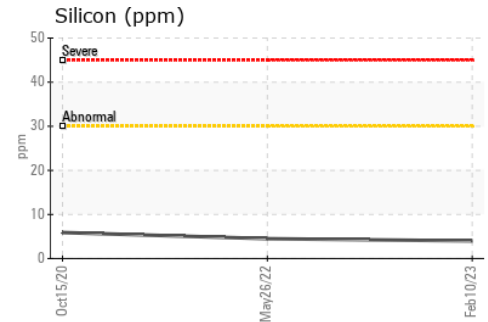
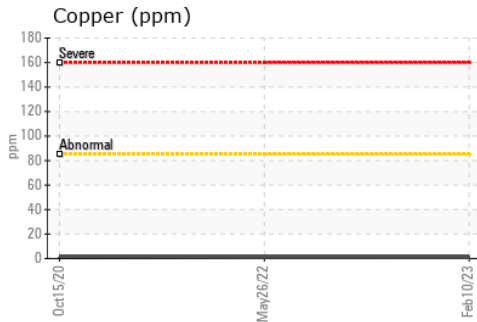
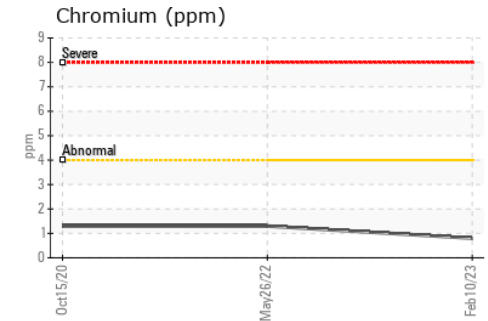
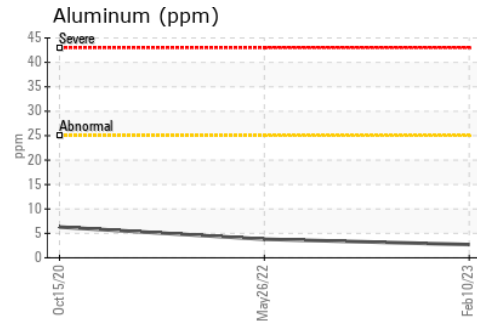
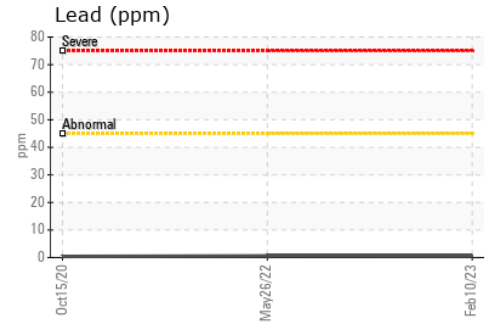
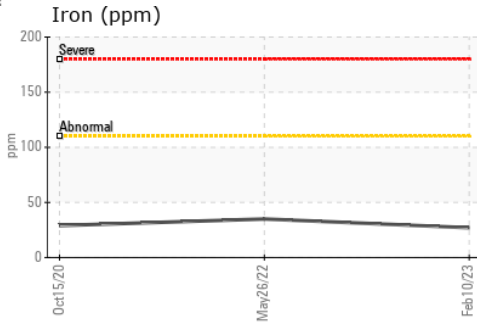
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.1	11.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 355 - Saskatoon  
**Sample No.** : GFL0047676 **Received** : 17 Nov 2023  
**Lab Number** : 02597044 **Diagnosed** : 17 Nov 2023  
**Unique Number** : 5682124 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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